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series given, the even powers of  $x$ , or any other terms whatever, be wanting, their places must be supplied with cyphers ; which, in order the of numbering off, must be reckoned as real terms.

CIV. *Observatio Eclipsis Lunæ Die 30 Julii 1757. habita Olissipone à Joanne Chevalier, Congregationis Oratorii Presbytero, è Regia Londinensi Societate. Communicated by Jacob de Castro Sarmiento, M D F. R. S.*

Tubo optico 8 pedum.

		h	'	"
Read Nov. 16. 1758.	<b>I</b> Nitium penumbrae —	9	15	18
	Initium dubium eclipsis	9	22	24
Certo jam incœperat	— —	9	23	34
Umbra ad mare humorum observata	} — —	9	31	2
vitro plano cœruleo				
Solo tubo optico observata	— —	9	31	29
Vitro flavo observata	— —	9	31	48
Umbra tangit Grimaldum observata	} — —	9	31	20
vitro plano cœruleo				
Solo tubo optico	— —	9	31	50
Vitro plano flavo	— —	9	32	8
Totus Grimaldus tegitur observatus	} — —	9	34	4
vitro plano cœruleo				
Solo tubo optico	— —	9	34	28
Vitro flavo	— —	9	34	47
VOL. 50.	5 F			Umbra

	h	'	"
Umbra ad Tychonem observata vitro } plano cæruleo — — —	9	38	25
Solo tubo optico — — —	9	38	42
Vitro flavo — — —	9	38	59
Umbra ad Harpalum vitro cæruleo } observata — — —	9	55	6
Solo tubo optico — — —	9	55	35
Umbra ad Fracastorium — — —	9	59	57
Umbra ad Mare Nectaris — — —	10	00	50
Observata vitro flavo — — —	10	1	8
Umbra ad Dionysium — — —	10	5	2
Umbra tangit Mare Tranquillitatis — — —	10	5	50
Umbra ad Mare Serenitatis — — —	10	10	16
Umbra tegit Menelaum observata vi- } tro cæruleo — — —	10	11	4
Solo tubo optico — — —	10	11	29
Vitro flavo — — —	10	11	50
Totum Mare Fœcunditatis tegitur — — —	10	18	39
Umbra tangit Mare Crisium vitro cæ- } ruleo observata — — —	10	22	52
Solo tubo optico — — —	10	23	12
Vitro flavo — — —	10	23	29
Umbra ad Proclum — — —	10	23	33
Possidonius totus tegitur — — —	10	23	50
Totum Mare Serenitatis tegitur — — —	10	24	36
Totum Mare Crisium ab umbra tegitur — — —	10	30	27
Plato tegitur vitro cæruleo observatus — — —	10	31	26
Solo tubo optico — — —	10	31	48
Vitro flavo — — —	10	32	4
Obscuratio maxima — — —	10	55	40

EMERSIONES.

	<sup>h</sup>	<sup>7</sup>	<sup>77</sup>
Plato emergit observatus vitro flavo	11	19	5
Solo tubo optico — — —	11	19	31
Vitro cæruleo — — —	11	19	50
Aristarchus emergit — — —	11	21	3
Gassendus incepit emergere observatus vitro flavo — — —	11	25	36
Observatus solo tubo optico — — —	11	25	52
Observatus vitro cæruleo — — —	11	26	11
Gassendus totus extra umbram — — —	11	28	2
Schicardus incipit emergere — — —	11	45	44
Totus extra umbram — — —	11	47	10
Totum Mare Humorū extra umbram	11	46	50
Menelaus extra umbram — — —	11	55	36
Mare Serenitatis extra umbram — — —	11	59	46
Tycho extra umbra observatus vitro flavo	12	00	33
Solo tubo optico — — —	12	00	52
Vitro cæruleo — — —	12	1	14
Incipit emergere Mare Crisium — — —	12	8	31
Totum Mare Crisium extra umbram	12	16	28
Finis eclipsis — — —	12	28	26

Observatio hæc perfecta é cœlo claro ; umbra autem terræ ita diluta erat, ut maculæ in ea conditæ satis dignoscerentur.